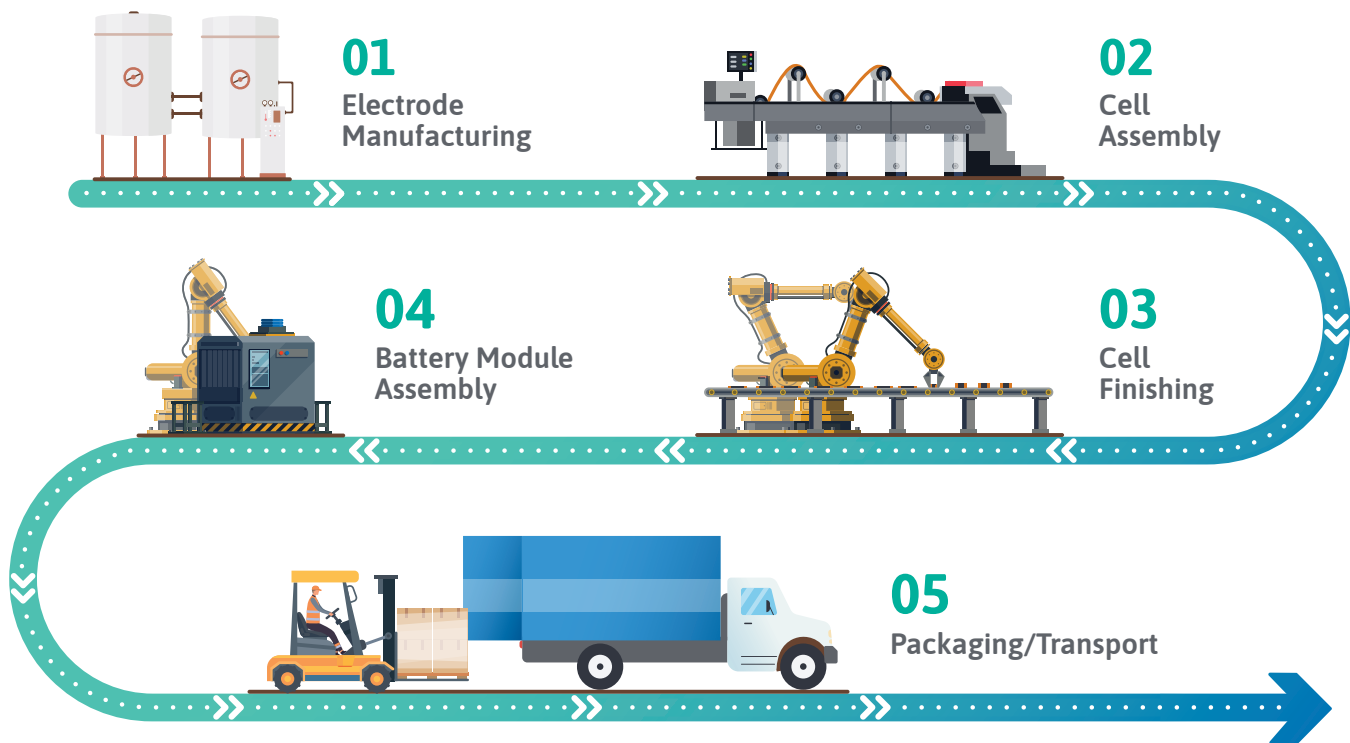


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EV BATTERY MANUFACTURING PROCESS

Before being assembled within the modules that power modern EVs, lithium-ion batteries undergo a challenging process to convert the raw material into a usable, final product. Every step of the process brings with it unique requirements to ensure a reliable, safe means of powering the greener alternative to road travel. And while that process can vary from facility to facility, the average journey from production line to packaging can be illustrated as the following:



PROTECTION AT EVERY STEP OF THE PROCESS













PROTECTION CATEGORY	PRODUCTION PHASE	HAZARDS IDENTIFIED
Abrasion Protection	BM, BP	Hand fatigue and overexertion due to material and tool handling, placing cells
ATEX Protection	BM	Exposure to ATEX environments due to emergency use for damaged battery module
Chemical Protection	EM, CA, CF, BM	Exposure to chemicals during loading, mixing, and coating, electrolyte filling, adhesive application
Cut Protection	EM, CA, BM, BP	Cuts or lacerations when handling sharp material, blade changing in electrode manufacturing
Single-Use Protection	EM, CA, CF, BM, BP	Exposure to various hazards during equipment operation, material handling, transportation
Electrical Protection	BM, BP	Presence of high-voltage components and wiring capable of delivering a fatal electric shock
Impact Protection	EM	Crush and pinch injuries when unloading and unpacking raw materials
Multi-Purpose Protection	EM, CA, CF, BM, BP	Exposure to various hazards during equipment operation, material handling, transportation
Thermal Protection	EM, CA, BM	Arc flash and other heat-related injuries when operating high temperature conveyors and performing laser welding
Welding Protection	CA, BM	Heat-related injuries when performing laser welding for cell packaging and closure of modules

EM: Electrode Manufacturing CA: Cell Assembly CF: Cell Finishing BM: Battery Module BP: Battery Pack

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INDUSTRIAL PPE FOR EV BATTERY MANUFACTURING

As demand continues to grow in the sector, scaling in production will necessitate a larger pool of individuals relying on innovative PPE to protect them from the often hazardous conditions present in manufacturing/production plants. As a leader in innovative safety solutions, Ansell provides countless individuals in the industry with the means to make their workplace a safer place.

TYPE OF PROTECTION			PRODUCTION PHASE/APPLICATION				
			Electrode Manufacturing	Cell Assembly	Cell Finishing	Battery Module Assembly	Battery Packaging/Transport
AlphaTec® 38-514		Chemical Hand Protection	● (mixing)				
AlphaTec® 1500/1800 Standard		Chemical Body Protection	●	●	●	●	●
AlphaTec® 2000 Standard						●	
AlphaTec® 2300 PLUS			●	●	●	●	●
AlphaTec® 4000						●	
HyFlex® 11-754 /755/757		Cut Protection				●	●
TouchNTuff® 92-600		Single-Use Protection	●	●	●	●	●
MICROFLEX® 93-243			● (cleaning)				
MICROFLEX® 93-260			● (cleaning)				
HyFlex® 11-561		Abrasion Protection				●	●
HyFlex® 11-819 ESD		Touchscreen /ESD Protection				●	
ActivArm® RIGS Class 00		Electrical Protection	●			●	

Consult AnsellGUARDIAN® Partner for glove and suit selection tailored to your unique set of chemicals, needs, and applications

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